













































# **ATTACHMENT**

**Mfg. No. Description** 1694146 Hitch, Sub Frame



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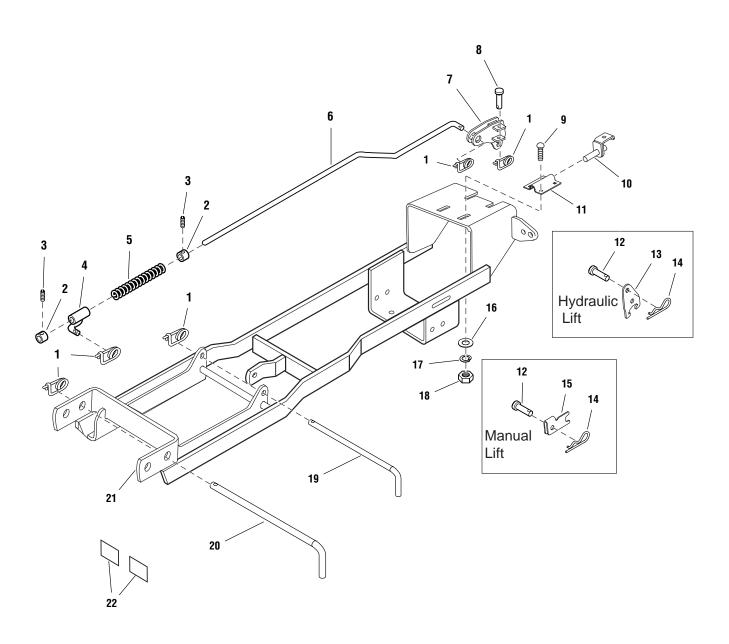








NOTE: Unless noted otherwise, use the standard hardware torque specification chart.



The above parts group applies to the following Mfg. Nos.:

1694146 Hitch, Sub Frame

Hitch - Sub Frame

REF NO.	PART NO.	QTY.	DESCRIPTION		
1	176012	5	RETAINER, Pin		
2	8031007	2	COLLAR, Set		
3	1928721	2	SCREW, Set, Square Head, Cup Point, 5/16-18 x 1/2, GR 8		
4	1723115	1	TUBE & PIN ASSEMBLY		
5	171011	1	SPRING, Compression		
6	1722946	1	ROD, Rear Lift		
7	105249	1	PIN, Round Head,3/8 x 2-3/8		
8	1723274	1	LEVER ASSEMBLY		
9	1931335	4	CARRIAGE BOLT, 5/16-18 x 1		
10	1723292	1	SHAFT & HOOK ASSEMBLY		
11	1653768	1	CLAMP, Wheel Support		
12	1722819	1	PIN, Flat Head		
13	1722469	1	PLATE, Presser Lock		
14	1960033	1	CLIP, Hair Pin		
15	1722470	1	PLATE, Pressure Lock		
16	1919381	4	WASHER		
17	1917356	4	LOCKWASHER, Spring, 5/16		
18	1917372	4	NUT, Hex, 5/16-18		
19	1715758	1	ROD, Latch		
20	1723309	1	ROD, Hitch		
21	1722922	1	PUSH BAR ASSEMBLY		

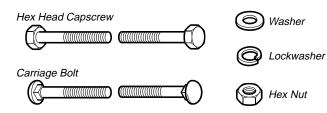
### Footnotes:

The above parts group applies to the following Mfg. Nos.:

1694146 Hitch, Sub Frame

# **Hardware Identification & Torque Specifications**

#### **Common Hardware Types**

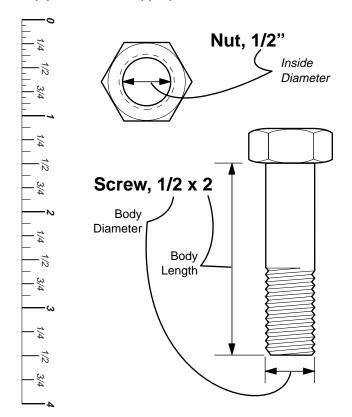


#### Standard Hardware Sizing

When a washer or nut is identified as **1/2**", this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch; if a second number is present it represent the *threads per inch* 

When bolt or capscrew is identified as 1/2 - 16 x 2", this means the *Nominal size*, or *body diameter* is 1/2 inch; the second number represents the *threads per inch* (16 in this example, and the final number is the *body length* of the bolt or screw (in this example 2 inches long).

The guides and ruler furnished below are designed to help you select the appropriate hardware and tools.



# **Torque Specification Chart**

FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)

Hardware Grade	No Marks SAE Grade 2		SAE Grade 5		SAE Grade 8	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
8-32	19	2.1	30	3.4	41	4.6
8-36	20	2.3	31	3.5	43	4.9
10-24	27	3.1	43	4.9	60	6.8
10-32	31	3.5	49	5.5	68	7.7
1/4-20	66	7.6	8	10.9	12	16.3
1/4-28	76	8.6	10	13.6	14	19.0
5/16-18	11	15.0	17	23.1	25	34.0
5/16-24	12	16.3	19	25.8	27	34.0
3/8-16	20	27.2	30	40.8	45	61.2
3/8-24	23	31.3	35	47.6	50	68.0
7/16-14	30	40.8	50	68.0	70	95.2
7/16-20	35	47.6	55	74.8	80	108.8
1/2-13	50	68.0	75	102.0	110	149.6
1/2-20	55	74.8	90	122.4	120	163.2
9/16-12	65	88.4	110	149.6	150	204.0
9/16-18	75	102.0	120	163.2	170	231.2
5/8-11	90	122.4	150	204.0	220	299.2
5/8-18	100	136	180	244.8	240	326.4
3/4-10	160	217.6	260	353.6	386	525.0
3/4-16	180	244.8	300	408.0	420	571.2
7/8-9	140	190.4	400	544.0	600	816.0
7/8-14	155	210.8	440	598.4	660	897.6
1-8	220	299.2	580	788.8	900	1,244.0
1-12	240	326.4	640	870.4	1,000	1,360.0

#### **NOTES**

- These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
- 2. Recommended seating torque values for locknuts:
  - a. for prevailing torque locknuts use 65% of grade 5 torques.
  - b. for flange whizlock nuts and screws use 135% of grade 5 torques.
- 3. Unless otherwise noted on assembly drawings, all torque values must meet this specification.

## Wrench & Fastener Size Guide



1/4" Bolt or Nut Wrench—7/16"



**5/16" Bolt or Nut** Wrench—1/2"



3/8" Bolt or Nut Wrench—9/16"



**7/16" Bolt or Nut**Wrench (Bolt)—5/8"
Wrench (Nut)—11/16"



1/2" Bolt or Nut Wrench—3/4"